

CLAIMS

What is claimed is:

1. A spread spectrum communication system comprising:

means for producing a reference signal;

means for producing a plurality of message signals, each message signal having message data;

means for combining the reference signal and the plurality of message signals as a combined signal;

means for transmitting the combined signal as a combined spread spectrum signal;

means for receiving the combined spread spectrum signal;

means for detecting the reference signal within the received combined spread spectrum signal; and

means for recovering the message data of the plurality of message signals using the reference signal.
2. The system of claim 1 further comprising:

means for recovering a carrier signal from the combined spread spectrum signal using the reference signal; and

wherein the message data recovering means uses the recovered carrier signal to recover the message data.

3. The system of claim 1 wherein the combined spread spectrum signal is in a code division multiple access format.

4. The system of claim 1 wherein a base station transmits the combined spread spectrum signal and a mobile station receives the combined spread spectrum signal.

5. A method for use in a spread spectrum communication system, the method comprising:

producing a reference signal;

producing a plurality of message signals, each message signal having message data;

combining the reference signal and the plurality of message signals as a combined signal;

transmitting the combined signal as a combined spread spectrum signal;

receiving the combined spread spectrum signal;

detecting the reference signal within the received combined spread spectrum signal

and

recovering the message data of the plurality of message signals using the reference signal.

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6. The method of claim 5 wherein the combined spread spectrum signal is in a code division multiple access format.

7. The method of claim 5 wherein a base station transmits the combined spread spectrum signal and a mobile station receives the combined spread spectrum signal.

8. The method of claim 5 further comprising:
recovering a carrier signal from the combined spread spectrum signal using the reference signal; and

wherein the message data recovering means uses the recovered carrier signal to recover the message data.

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